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## **LINKAGES WITH INDUSTRY/ORGANIZATIONS**

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### **FACULTY OF ARTS & HUMANITIES**

#### **Department of French Language & Literature:**

- Continued affiliation with Alliance Francaise d' Islamabad and Embassy of France for the programme of French Online Certificate.

#### **Centre for South Asian Studies:**

##### **At national level**

- Rumi Forum, Pakistan
- Sir Ganga Ram Heritage Foundation (SGRHF), Lahore.
- Area Study Centre for Africa, North and South America, Quaid-e-Azam University, Islamabad.
- Area Study Centre (Russia, China & Central Asia), University of Peshawar
- Area Study Centre for Middle East & Arab Countries, University of Quetta

##### **At international level**

- Centre for South Asian Studies, Kashmir University, Srinagar, India
- Faculty of Arts and Culture, South Eastern University, Oluvil, Sri Lanka
- Bangladesh Institute of International and Strategic Studies, Bangladesh

#### **Exchanges and Resource sharing programs**

##### **Mutual Exchange of Publications with**

- Foreign Institutions                      44
- Domestic Institutions                      50

### **FACULTY OF BEHAVIOURAL & SOCIAL SCIENCES**

#### **Department of Political Science:**

**At national level:** Foreign Offices (Ministry of Foreign Affairs), Teaching Institutions, NGO's and IGO's, Communication Media (TV, Radio & News papers)

**Exchanges and Resource sharing programs:** Journal Exchange

**Internships:** Punjab Assembly, Lahore.

#### **Department of Social Work:**

**At national level:** UNDP, UNICEF, Plan Pakistan, Devolution Trust for Community Empowerment (DTCE), SOS-RSP, SPDC-Karachi, SDPI, Gender Reform Action Plan (GRAP), Social Protection & Zakat-o-Usher Department, Govt. of the Punjab (Social Welfare, Women Development & Bait-ul-Maal), Child Protection & Welfare Bureau, Govt. of the Punjab, Planning & Development Department Govt. of the Punjab, Bureau of Statistics, Govt. of the Punjab, Directorate of Special Education etc.

**Institute of Communication Studies:**

**At national level:** The Institute of Communication Studies has linkages with PTV, ATV, ARY, GEO, AAJ TV, Apna TV, Indus, FM 104.6, FM.100, FM 101, Daily News, Daily Nation, Daily Dawn, Daily Times, Daily Post, Daily Sun, Daily Jang, Daily Nawa-i-Waqt, Daily Khabrain, Daily Pakistan, Daily Insaf, Daily Express, Daily Jinnah, Daily Awaz, Daily Ausaf, Midas Public Relations and PEMRA

**At international level:** The Institute of Communication Studies has linkages with UNISEF, UNESCO, Inter News, DW (Germany), Gulf News (Qatar), Oslo University College, Norway.

**Exchanges and resources sharing program/forums of resource sharing:** Visited to Oslo University College on the invitation of Norwegian Foreign Ministry, Norway as Leader of 6 members media delegates October 17-24, 2009.

**Alumni Meetings:** Meetings are causally held with the following significant Alumni. Mr. Arif Nazami, Mr. Zahid Malik, Mr. Shuaib Bin Aziz, Mr. Shakoor Tahir, Mr. Asghar Abdullah, Mr. Sarwar Muneer Rao, Mr. Hamid Mir, Mr. Arshad Ansari, Dr. Waqar Chaudhry, Mr. Ashraf Azeem, Mr. Imran Mir etc.

**Internships:** Deuetsche Welle (DW) German Radio, PTV, ATV, ARY, GEO, AAJ TV, Apna TV, Indus, Royal TV, Din News, Duniya TV, PU FM 104.6, FM.100, FM 101, FM 103, APP, Daily News, Daily Nation, Daily Dawn, Daily Times, Daily Post, Daily Sun, Daily Jang, Daily Nawa-i-Waqt, Daily Khabrain, Daily Pakistan, Daily Insaf, Daily Express, Daily Jinnah, Daily Waqt, Daily Awaz, Daily Ausaf, Midas Public Relations, DGPR, Times & Space and Red Communication offer internship to the students of ICS.

**Institute of Social & Cultural Studies:**

**At national level:** Under the umbrella of ISCS, Department of Gender Studies has linkages of Ministry of Women Development, Human Rights and allied departments. It is also in contact with NGOs working in the field of Women and Gender development.

**Internships:** Internship of students is an in-built component of the curriculum taught in all the department of ISCS. This year almost 450 students were placed on internships in different national as well as international organizations concerning their relevant field.

**Department of Gender Studies:**

**At National Level:** In regular contact with the Ministry of Women Development and allied department.

Also in contact with NGOs working in the field of women/gender development.

**Internships:** Student internship at women and gender development GOs and NGOs is an in-built component of its curriculum. Each year about 90 students are sent for two months internship in around 30 NGOs/GOs working for women/gender development.

**FACULTY OF COMMERCE****Hailey College of Banking & Finance:**

**At National Level:** Insurance Association of Pakistan (Curriculum Development), Lahore Insurance Institute (Support for Development of Students Faculty Arrangements Projects and teaching)

**At International Level:** The College was represented in AMDISA for contributing towards the noble cause of strengthening quality standards in business schools in SAARC region.

**Exchanges and resources sharing program/Forums of resource sharing:** Leadership lecture series programs were actively pursued and captains of industry and financial sector were invited to deliver series of lectures to our students pursuing various programs in BBA (Hons.), MBA (Morning) and MBA (Evening). Prof. Fida Hussian Bukhari played a prominent role in this report.

**Alumni Meetings:** A meeting of alumni was held to initiate paper work to establish alumni association.

**Internships:** Our students did internships in almost All Banks and Insurance Companies as well as in other Financial Institutions. They eventually produced internship reports. After Viva voce their grades were determined and reflected in their transcripts.

## **FACULTY OF ECONOMICS & MANAGEMENT SCIENCES**

### **Department of Economics:**

50 students of Master in Business Economics (MBEcon) have completed their internship from different banks/NGOs.

### **Department of Library & Information Science:**

**At International Level:** Prof. Dr. Kanwal Ameen

- Secretary, IFLA Discussion Group on LIS Education in Developing Countries
- International Federation of Library Associations (IFLA)
- American Library Association
- Chartered Institute of Library and Information Professional (CILIP, British)
- Ex-Student Association, University of Texas.
- Steering Committee, Fulbright Alumni Association.
- Literati Club, Emeraldinsight

### **Prof.Dr.Khalid Mahmood**

- Member of editorial team of three LIS International Journals
- Literati Club, Emeraldinsight

### **At national level**

- Prof. Dr. Kanwal Ameen is Executive member and Chair, Continuing Education Committee of Pakistan Library Association (PLA, Pb).
- Prof. Dr.Kanwal Ameen Parton Alumni Association
- Prof. Dr.Khalid Mahmood Patron Alumni Association
- Syeda Hina Batool Executive member and Chair Continuing Education Committee (CEC), Punjab University Library & Information Science Alumni Association

- **Internships:** All students of master classes completed the 8-week internship at various libraries and information centers of Lahore.

**Institute of Administrative Sciences:**

- **At national level:** We have linkages with major national and multinational organizations in order to get our graduates placed in good organizations and create some internship opportunities for the students who are still completing their programs.
- **Alumni Meetings:** Our alumni are a source of continued support for the Institute. The alumni networks that serve the leading organizations throughout the country facilitate existing students in internships and job placements. Alumni network meetings have also been conducted to strengthen relationships with our stakeholders.
- **Internships:** We arrange annual internship opportunities for Masters & BS (HONS) in management in various public, private and civil society organizations.
- **Organizational Visits:** Our students regularly visit professional organizations to get an insight of their professional practices to relate theory and practice and to strengthen the organization and university linkage.

**Institute of Business Administration:**

The institute is linked internationally with several institutions in respect of academic and research assignments. Over the years, we are expecting, to grow further in terms of relationships so that national and international interactions continue as an on-going activity. Some of the current linkages are as under:-

- With the kind support of United Nations International Trade Centre (UNITC), Geneva, our faculty has undertaken several visits abroad. The faculty has also attended several courses taught by foreign faculties. We look forward to expanding association for upgrading our course, facilities and logistic and offering new package of courses. Cases written by some of our faculty members have been approved for use and international circulation.
- Our faculty has interaction in terms of exchange of material and ideas with many universities of Canada and the United States.
- We have conducted two research studies for International Labor Organization Geneva and one for TWARO of Japan.
- In future, we are looking forward to establishing linkages with Cleveland State University, Ohio (USA) for their technical support through UNITC, Geneva.
- We are a member of the Association of Management Development Institution in South Asia (AMDISA).
- Asian and Pacific Development Centre, Kuala Lumpur, Malaysia has also registered us for work linkage.

- We have effective work linkages with Asian Productivity Organization (APO), Tokyo, Japan.
- **Alumni Meetings:** Annual General Meeting/Annual Dinner 2009 of IBA Alumni Association was held on November 23, 2009 at Royal Palm Golf Club, Lahore.
- **Internships:** Over the years, we have developed a strong liaison with commercial and industrial houses, financial institutions and other organizations of national and international repute. During summer vacations, IBA engaged its students in two-month internship program with the following organizations. This rigorous training program not only adds value to the firm but also provides an opportunity to the students to polish their own skills.
- Aftab Associates, Al-Mezan Bank Ltd., Askari Commercial Bank, Atlas Honda Ltd, Avari Hotel, Lahore, Bata Pakistan Ltd., Caltex Oil (Pakistan) Ltd., Colgate-Palmolive (Pakistan) Ltd., Crystal Chemicals Ltd., D.G. Khan Cement Co. Ltd., Dalda Foods, Dawood Hercules Chemicals Ltd., Descon Engineering (Pvt) Ltd., Fauji Fertilizer Company Ltd., Fayasal Bank Ltd., First Women Bank, FMC, HKB, Habib Bank Limited, ICI Pakistan Ltd., ICI Polyester Ltd., Ittehad Chemical Ltd., KASB Bank Ltd., Kohinoor Industries Ltd., KSB Pumps Company Ltd., Lahore Chamber of Commerce & Industry, Lahore Stock Exchange (G) LG Electronics, Millat Tractors Ltd., Mobilink Ltd., Muslim Commercial Bank Ltd., Nagina Group of Industries, National Investment Trust Ltd., Nestle Milk Pak Ltd., NetSol, Nishat Mills Ltd., Orix Leasing Pakistan Ltd., Packages Ltd., Pak Elektron Ltd (PEL), Pakistan Engineering Company Ltd., Pakistan Industrial Credit & Investment Corporation, Pakistan International Airlines, Pakistan State Oil, Pakistan Water and Power Authority, Pearl Continental Hotel, Pepsi Cola International (Pvt) Ltd., Refhan Best Food Pvt Ltd., Sapphire Fabrics Ltd., Shell Pakistan Ltd., Shezan International, Siemens Engineering Company, Silk Bank (Pvt) Ltd., Sitara Textiles Industries (Pvt) Ltd., Standard Chartered Bank, State Bank of Pakistan, Style Textile (Pvt) Ltd., Sui Northern Gas Pipelines Ltd., TDCP, TELUS Advertising Agency, Tetra Pack, The Bank of Punjab, Total Parco Ltd., Trade Development Authority Pakistan, U-fone, Unilever Pvt Ltd., United Bank of Pakistan, Warid Telecommunications, WOL Internet, Lahore, Zong

#### **Institute of Business & Information Technology:**

The Institute of Business and Information Technology is actively working on developing and strengthening the relationships between academia and industry since its inauguration. We have established an Industrial Liaison Cell at IBIT with an aim to enhance professional networking and contacts with the local industry. During the academic year 2010, 82 students have been graduated in our MBIT Direct (MBIT F07) program and many of them were placed at diversified organizations including leading banks, multinationals and private sector organizations. We also provided continuous career counseling for our graduating students and guided them in developing resumes, interview preparations and assisted them in applying abroad for further studies. In the summer of 2010, 80 students of MBIT

Direct and 90 students of BBIT (Hon.) have done internships in diversified industries and organizations throughout Pakistan.

## **FACULTY OF ENGINEERING AND TECHNOLOGY**

### **Centre for Coal Technology:**

This Centre have very strong linkage with the cement and other chemical industries utilizing coal as fuel.

### **Institute of Quality & Technology Management:**

Following organizations visited the institute to conduct tests, interviews of our graduate of B.S IEM and selected our students for jobs.

**Millat Group of Companies**, Atlas Honda, Sanpak, Suzuki

**Textile & Apparel:** Crescent Bahuman, US Apparel & Textile, Sitara Textile, Azgard 9 Textile, Masood Textile, Master Textile, Interloop Knit

**Food and Beverages:** Coca Cola, Pepsi, Quershi, Nestle

**Project Based Companies:** Descon, ICON, Ithemad

**Oil and Gas Companies:** Attock Oil, Parco, Bosicor, SHELL, PSO

**Miscellaneous:** ICI, Engro, FFC, Descon Chemicals

Internship is a part of curriculum of B.S Industrial engineering & Management degree program. BS-Industrial Engineering and Management students completed their internship during summer vacation at different industries.

### **College of Engineering & Emerging Technologies:**

**Internship:** Students of 5<sup>th</sup> semester completed 6 week inplant training in different industries during summer vacations.

### **Linkage with non-industrial organizations for resource sharing**

- PCSIR Laboratories, Lahore,
- Pakistan Standards and Quality Control Authority (PSQCA), Lahore
- Center for Solid State Physics, University of the Punjab, Lahore

**Industrial Linkage:** Students of the College have visited different industries and students of 6th semester have done Industrial training in the following industries.

<b>Sr. No.</b>	<b>Industry Name</b>	<b>Address</b>
1.	Ittefaq Sons (Pvt) Ltd.	Lahore
2.	Supra Steels	Climax Abad G.T.Road, Gujranwala
3.	PCSIR	Ferozepur Raodl, Lahore
4.	New Shalimar Steel Mills	Sheikhupura Road, Lahore
5.	HMC	Taxila, 47050
6.	Fiber Tech Composites	Canal Bank, Hanif Park, Harbanspura, Lahore-54850

7.	Sui Northern Gas Pipelines Ltd	Gas House 21 Kashmir Road, P.O.Box 56, Lahore
8.	Pakistan Standards and Quality Control Authority	125-A Industrial Area Kot Lakhpat Lahore-54770
9.	Pakistan Cycle Industrial Co-Operative Society Ltd.(Rustam Sohrab Cycle Factory)	P.O.Rustam Cycle Factory Sheikhpura Road, Shahdara
10.	PIA Engineering	Near PIA Training Center Airport Karachi 75200
11.	Chenab Engineering Works & Foundries Private Ltd.	Jumra Road, Nishatabad, Faisalabad
12.	Bolan Castings Ltd.	Hub District Lasbela Balochistan, Adjacent to Bela Engineers Ltd, Village Baroot sub-Tehsil, Hub District
13.	New Shalimar Steel Industries Private Ltd.	45-Peco Road, Badami Bagh, Lahore
14.	Batala Steels	17 Km, Sheikhpura Road, Lahore
15.	Qaderi Brothers Pvt.Ltd.	O/S Kashmiri Gate Peco Road, Badami Bagh Lahore
16.	DSW, Pakistan Railways	Mughal Pura Lahore
17.	Pakistan Steel Mills Corporation	Bin Qasim Karachi 75000 P.O.Box 5429
18.	KSB, Pumps	Hassan Abdal, Garden Trust Building 16/2,Sir Agha Khan Road, Lahore
19.	POF,	Institute of Technology Administration Department Wah Cantt
20.	BBJ, Pipe Industries Pvt.Ltd.	49 Km, Multan Road, Near Ittefaq Adda, Bhaipheru, BBJ, House 40, Abbot Road, Lahore
21.	Excel Foundary	Sheikhpura Road, Lahore
22.	Descon Engineering Ltd	18 Km Ferozepur Road, Lahore
23.	New Shalimar Steel Industry Pvt.Ltd.	Lakho Dair Road, Shadi Pura, band Road, Lahore
24.	NESCOM	Islamabad
25.	Mughal Steels	Sheikhpura Road, Lahore
26.	Millat Equipment Ltd	10 Km Raiwind Road, Lahore
27.	AFCO Steels	22 Km, Sheikhpura Road, Lahore
28.	Fast Cables & Co.	14-G, Gulberg III, Lahore, 7-Canal Bank Main Jallo Road, Lahore
29.	EMCO Industry Ltd.	2nd Floor, Emirates Bank Building Kashmir/Egerton Road, Lahore
30.	Treet Corporation Ltd.	72-B, Kot Lakhpat Industrial Area, Lahore 54770
31.	Pakistan Mineral Development Corporation (Pvt) Ltd.	Head Office 13-H-9, Islamabad, 44790
32.	Wahid Industries (Universal Pistons)	Fayyazi Street, Dull Khurd, Ferozepur Road, Lahore
33.	Emco Industries Limited	19-Km, Sheikhpura Road, Lahore

34.	Master Tiles and Ceramics Industries & Master Sanitary Fittings Industries	G.T. Road, Gujranwala
35.	Syed Bhais (Pvt.) Limited	200 Ferizepur Road, Lahore 54600
36.	Siemens Pakistan Engg. Co. Ltd.	Shared Services Department Carrier Telephone Industries Pvt. Ltd.
37.	Sonex Sanitary Fittings	Gujranwala
38.	Rastgar Engineering Company	1-9/3, Islamabad
39.	Qaderi Foundaries	Badami Bagh, Lahore
40.	Zong Cellular Phone Company	Lahore
41.	Telenor Zong Cellular Phone Company	Lahore
42.	Warid Zong Cellular Phone Company	Lahore
43.	Zte Software Development Company	Lahore
44.	Wateen Cellular Phone Company	Lahore
45.	Mobilink Cellular Phone Company	Lahore

**Alumni:** A group titled “Metallurgist Community of Punjab University” has been created on face book for interaction of current students and alumni of Metallurgy and Materials Engineers. Similarly “Electrical Engineering (Punjab University) group has been on face book to interact between Electrical Engineers of this college.

#### **FACULTY OF LAW**

##### **University College of Law:**

**At national level:** Pakistan Bar Council, Planning & Development Department Govt. of the Punjab, WTO Cell, Planning & Development Govt. of the Punjab, Environmental Protection Department Government of the Punjab, Hassan & Hassan Advocates, Irfan & Irfan Advocates, Human Rights and Minorities Affairs Department, Govt. of the Punjab.

#### **FACULTY OF LIFE SCIENCES**

##### **Department of Microbiology and Molecular Genetics:**

**At national level:** School of Biological Sciences, University of the Punjab, Lahore, CAMB, University of the Punjab, Lahore, Department of Zoology, University of the Punjab, Lahore, Department of Pharmacy, University of the Punjab, Lahore, Prof Dr Nuzhat Ahmad, Centre for Molecular Genetics, Karachi University, Children Hospital, Lahore, Brighto Paints, Lahore, CitiLab and Research centre, Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore. Federal Post Graduate Medical Institute, Pharmacology Department, Sheikh Zayed Hospital, Lahore, University of Health Sciences, Lahore, PCSIR Laboratories, Lahore.

##### **At international level:**

- Prof Dr Max Meargy , University of Brussels, Belgium
- Prof Dr Simon Silver Dept .Microbiology and Immunology, University of Illinois, USA
- Prof .Ian Colbeck, Department of Biological Sciences, University of Essex, U.K.
- Dr. Tom Clarke School of Biological Sciences, University of East Anglia, UK.



- Dr. Karin Ljung, Swedish University of Agricultural Sciences, Umeå, Sweden.
- Dr Laatsch, Gottingen University, Germany.
- Prof. Dr. Lucas J. Stal, Netherlands Institute of Ecology/KNAW, Korringaweg, Yerseke, The Netherlands
- Prof. Dr. Thomas Roistch, Julius-Maximilian University Wuerzburg, Germany.
- Dr.Robert Edyvean, University of Sheffield, UK.
- Prof. Dr. Michael J. McInerney, Department of Botany and Microbiology, University of Oklahoma, Norman, USA.
- Dr. Lee Krumholz, Department of Botany and Microbiology, University of Oklahoma, Norman, USA.
- Dr Bill Maher, Department of Environmental Sciences, University of Canberra, Australia.
- Dr. Michael Hess, Clinic for Avian, Reptile and Fish Medicine, Department of Farm Animals and Herd Management, University of Veterinary Medicine, Vienna, Austria.
- Dr. Haluk Beyenal, Gene and Linda Voiland School of Chemical Engineering and Bioengineering, Center for Environmental, Sediment and Aquatic Research (CESAR), Washington State University, USA.
- Dr. Graham Pavitt, Associate Professor, Michael Smith Building, Faculty of Life Sciences, University of Manchester, Oxford Road, M13 9PT, U.K.
- Geoff P. and Joan Lin-Cereghino, Associate Professors, Department of Biological Sciences, University of the Pacific, 1050 W Brookside Road, Stockton CA 95211, USA.
- Dr.Ann Hirsch, Molecular cell and developmental biology department. UCLA , USA.
- Dr Robert Bachmann, Section of Environmental Engineering Technology, Universiti Kuala Lumpur, MALAYSIA, MICET, Lot 1988, Taboh Naning Vendor City, 78000 Alor Gajah, Melaka.
- Dr. Balwant Singh, Faculty of Agriculture, Food and Natural Resources, University of Sydney, Sydney NSW 2006, Australia.
- Dr. Michael Kertsz, Faculty of Agriculture, Food and Natural Resources, University of Sydney, Sydney NSW 2006, Australia.
- Dr. Kim Yrjala, Adjunct Professor, Department of Biological and Environmental Sciences Faculty of Biosciences, University of Helsinki, Finland.
- Dr. Malamy Jocelyn, Department of Molecular Biology and Genetics, University of Chicago, Chicago, USA.

#### **Exchanges and Resource sharing programs:**

Following students of Ph.D are doing their research projects in various institutes.

Ms Samreen Riaz	Dr. Muhammad Waheed Akhter, SBS, University of the Punjab, Lahore.
Ms Saira Malik	Dr. Sadaf Naz, SBS, University of the Punjab, Lahore.
Ms Rashida Bashir	

**Internships**

- A graduate student Muhammad Asif Iqbal from Hazara University did an internship in Plant Biotechnology and learned techniques of tissue culture.
- A student of B.Sc. (Hons.), Department of Biotechnology, Forman Christian College (A Chartered University) completed an internship in basic techniques in Microbiology.

**Department of Applied Psychology:**

- Medecins Du Monde (In progress)
- Child Protection and Welfare Bureau (In progress)

Internships: In Clinical, Counseling and Industrial setting as per area of specialization.

**Department of Zoology:**

**Exchanges and resources sharing program/Forums of resource sharing:** Research students are sent to other research institutions and vice versa to use the library and research facilities available at a particular place.

**Internships:** Students are sent to INMOL, PCSIR, NIBGE, Veterinary University for internship.

**Centre for Clinical Psychology:**

**At National level:** Mayo Hospital, Lahore, Sir Ganga Ram Hospital, Lahore, Services Hospital, Lahore, Children Hospital, Lahore, Jinnah Hospital, Lahore, Sheikh Zayed Hospital, Lahore, Punjab Institute of Mental Health (PIMH), Lahore, Amin Maktab, SOS Children's village, INMOL Hospital

In Addition, Centre is also providing Community Services at Chamrupur to the Children with Special needs.

**Recreational and other activities by the students of the Centre**

- Welcome and Farewell parties were also arranged by the students of BS (Hons.); ADCP and MS in Clinical Psychology at the Centre.
- Moreover, academic/ recreational trips for students were also arranged. They consulted the Library of NIP and also visited drug addiction centre in Murree as part of their training.
- Students were also involved in the sports activities and sports day was also celebrated.
- Students also participated in Mental health week celebrated by PIMH and won first and second prizes in poster competition and also won quiz competition.
- Students also participated in Mental Health week arranged by GCU and won prizes and certificates.
- Children from Living Institute at the Centre Participation in City Games organized by Life Care Centre Taj Pura and won 3 Gold medals in race 25m.
- They also Participated in Health Mela organized Children Library Complex (23-1-2010)
- These children also participated in Football Championship at Model Town Park at 15<sup>th</sup> February, 2010 students won one gold medal and two silver medals.

- On 15<sup>th</sup> October, 2009: These Special Children Participate in Special Olympics Punjab Games and won 3 gold medal and 3 silver medal in athletics.

#### **National Centre of Excellence in Molecular Biology:**

**Internships:** Nineteen internees from different institutions completed internships at this Centre.

#### **Institute of Biochemistry & Biotechnology:**

**Exchanges and Resource Sharing Program/Forums of Resource Sharing:** In connection with HEC-BC research project, Dr. Saima Sadaf visited Queen Mary College, London University, UK ( January 09-24, 2010) for exchange of results obtained in collaborative research and learn same advanced techniques.

**Internship:** Students of M.Sc. / BS worked as internee in different hospitals and research centers of Lahore viz., Punjab Institute of Cardiology, Children hospital, Jinnah hospital, Sheikh Zayed hospital, INMOL and Shaukat Khanam Memorial Cancer Hospital and Research Centre, as a part of their studies.

#### **Institute of Plant Pathology:**

##### **At national level**

- A project is being conducted in collaboration with EPD (Environment Protection Department, Punjab).
- Collaboration with M/s Ali Akbar Pesticides, Lahore.
- Collaboration with M/s Monsanto Research Centre, Manga Town, Lahore.
- Collaboration with M/s Lahore Compost, Lahore.

##### **At international level**

A research project entitled "Biology, ecology and management of Parthenium weed (*Parthenium hysterophorus*): A threatening weed for natural and agroecosystems" was approved in collaboration with the University of Queensland, Australia under foreign linkages program.

**Exchanges and resources sharing program/Forums of resource sharing:** The journal of the Institute 'Mycopath' is being exchanged with different international/national journals.

#### **Internship Program (2010)**

##### **B.Sc. (HONS.) SESSION 2006-10**

<b>Sr. No.</b>	<b>Student</b>	<b>Supervisor</b>	<b>Title of Internship</b>
1.	Arooj Yousuf	Dr. Shazia Shafique	Bioefficacy of extracts of <i>Ageratum cornyzoides</i> to control <i>Drechslera</i> species
2.	Ruqeyah Abdul Majeed	Dr. Sobiya Shafique	<i>Cymbopogon citrates</i> as a remedy to control <i>Alternaria</i> species – a cause of leaf spot diseases
3.	Ayesha Naureen	Dr. Amna Javaid	Equilibrium studies on Ni(II) ions removal by eco-friendly adsorbents
4.	Taskeen Badar	Dr. Amna Javaid	Biosorption of heavy metals (Pb, Cu & Cd) from aqueous solution by fungi and multiple metal systems

5.	Ayesha Qamar	Dr. Amna Javaid	Influence of chromium and mercury on germination and growth of <i>Vigna radiata</i> , <i>Vigna mungo</i> & <i>Vigna unguiculata</i>
6.	Faiza Nasrullah Khan	Dr. Salik Nawaz Khan	Evaluation of comparative fungicides against the downy mildew of <i>Cucumis sativus</i> .
7.	Sidra Akhtar	Dr. Salik Nawaz Khan	Evaluation of comparative efficacy of chemical fungicides against downy mildew of <i>Luffa cylindrical</i> .
8.	Khadija Aaliya	Dr. Ghazala Nasim	Production of L.Asparaginase, in <i>Escherichia coli</i> , from hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> .
9.	Noor-ul-Ain	Dr. Ghazala Nasim	Isolation, identification and preservation of <i>Penicillium</i> spp., from rhizospheric soil of Mitchell's Fruit Farm.
10.	Saira Ayub	Dr. Ghazala Nasim	Production of Asparaginase from hyperthermophilic archaeon <i>Pyrobaculum calidifontis</i> in <i>Escherichia coli</i> .
11.	Maryam Noreen	Dr. Ghazala Nasim	Evaluation of the phytotoxic activity of <i>Fusarium</i> metabolites against <i>Dalbergia sissoo</i> Roxb.
12.	Sehrish Iftikhar	Miss Shabnam Javaid	Identification of phytochemical constituents of <i>Eucalyptus citriodora</i> responsible for antifungal activity against selected pathogenic organisms.
13.	Romana Shahzadi	Dr. Uzma Bashir	Isolation, purification, identification and preservation of fungi associated with soil and post-harvest diseases of cucurbits ( <i>Luffa cylindrical</i> , <i>Cucurbita pepo</i> , <i>Cucumis sativus</i> , <i>Cucumis melo</i> , <i>Citrullus vulgaris</i> ).
14.	Rafia Asghar	Dr. Uzma Bashir	Isolation, purification, identification & preservation of fungal flora from sugar & textile mill soil.
15.	Sara Bushra	Dr. Arshad Javaid	Genotypic variation in dieback resistant and susceptible varieties of <i>Dalbergia sissoo</i> .
16.	Hafiza Asma Rehman	Dr. Arshad Javaid	Antifungal activity of leaf extracts of some allelopathic trees against <i>Macrophomina phaseolina</i> .
17.	Nafisa	Dr. Nasir Mahmood	Isolation of antifungal protein (Ca-AFP) gene from <i>Cicer arietinum</i> and <i>Vigna mungo</i> , and their antifungal assays.
18.	Fahad Saleem	Dr. Nasir Mahmood	Molecular characterization of chitinase gene in different bacterial species.

### School of Biological Sciences:

**Internships:** B.Sc (Hons.), M.Sc and Ph.D. scholars of other departments of Punjab University and other institution spend six months to a year and learn research techniques and conducted thesis research.

The infrastructure of School is distributed in two double storied buildings, adjacent to each other, which are provided with all fixtures and facilities of any modern Molecular Biology and Analytical Chemistry labs. Presently there are 14 functional and fully furnished laboratories with the necessary equipment for research work in the first building. The second building, which is replica of the first building, houses some specialized laboratories/facilities, for example, Animal Cell Culture, Radioactivity, Cold

Room, HPLC, Proteomics, Atomic Absorption, MalDI-ToF Mass Spectrometry, Human Growth Hormone Laboratory, Forensic Diagnostic and Research Laboratory etc, besides a small Lecture Hall. Another small building just behind the new block houses a Small Animal House, an Insectary and a Green House. This would enable the School to expand its existing research activities. The School had plans to embark upon an extensive formal practical training programme in Molecular Biology for researchers, faculty members and post-graduate students of this university, other universities in and outside the town in Punjab and other provinces of Pakistan, but unfortunately because of problem of transfer of funds, this programme could not be undertaken with full force and enthusiasm. School is making rapid progress and is heading towards its objectives with the concerted efforts of younger faculty members, the senior faculty members as its Directors and the able guidance of a world's renowned Director General.

### FACULTY OF PHARMACY

#### University College of Pharmacy:

**At national level:** Pakistan Pharmaceutical Manufacturers Association, Pharma Gen Pvt. Ltd., Server Pharmaceutical Pvt. Ltd.

**At international level:** Universiti Sains Malaysia (USM)

**Exchanges and resources sharing program/Forums of resource sharing:** Various research projects of M. Phil. and Ph.D. is carried out in collaboration with Pharmaceutical Industries, Hospitals Pvt. Institute.

**Alumni Meetings:** College arranged many meetings regularly and development new ventures and facilitations to the graduates of the college.

**Internships:** Many students completed internship in various Pharmacy Practices areas like Pharmaceutical Industry, Hospital Pharmacy, Clinical Pharmacy, Community Pharmacy etc.

### FACULTY OF SCIENCE

#### Department of Mathematics:

**At international level:** Department of Mathematics, University of the Punjab, Lahore-Pakistan and School of Mathematical Sciences, University of Sians, Malaysia has signed memorandum of Understanding (MOU) for research collaboration.

#### Department of Physics:

##### At national level:

Sr. No.	Collaborating Industry / Organization	Nature of existing and Future Collaborations	Projects / MOUs on the subject indicating cost, duration status/progress etc.	Progress
1.	G. C. University, Lahore	(i) Microprocessor-based Instrumentation (ii) Radiation Effects on Metals and Measurement of their Physical and Crystalline Properties	Mutual Collaboration without funding	Every year many students work on their B.Sc., M.Sc., M.Phil and Ph.D. Projects. The research work in

2.	Pakistan Council of Renewable Energy Resources Islamabad.	Research Development of Solar Cells	Mutual Collaboration without funding	these fields will continue.
3.	PINSTECH (PAEC), Lahore.	i) Applications of Solid State Nuclear Track Detectors ii) Study of Nuclear Structure	Mutual Collaboration without funding	
4.	Pakistan Science Foundation (P.S.F), Islamabad.	Research Project in Theoretical Plasma Physics.	Mutual Collaboration with funding	
5.	Centre for Solid State Physics, University of the Punjab, Lahore	(i) Applications of X-Ray Diffraction (ii) Growth and Characterization of Materials	Mutual Collaboration without funding	
6.	Department of Meteorology, Lahore	Study of Weather Systems using Ground, Radisonde and Radar Data	Mutual Collaboration without funding	
7.	University of Engineering and Technology, Lahore	Lasers and Materials Growth and Characterization	Mutual Collaboration without funding	
8.	Institute of Geology, University of the Punjab, Lahore	Air Pollution and Mineralogy	Mutual Collaboration without funding	
9.	Shaukat Khanum Cancer Memorial Hospital, Lahore.	i) Nuclear Medicine ii) Radiation Protection iii) Radio Therapy	Mutual Collaboration without funding	
10.	INMOL, Lahore.			
11.	Mayo Hospital, Lahore			
12.	CENUM, Mayo Lahore.			

**At international level:** Department of Radiation Medicine, University of Kentucky, USA, Southside Regional Medical Centre, Petersburg, VA, USA, and Department of Electrical Engineering and Computer Science, Michigan State University, USA

**Exchanges and resources sharing program/Forums of resource sharing:** The research students of our department also use the lab facilities available at UET, PCSIR, SKH, INMOL etc. The students from other institutions (e.g., LCWU, UET, CSSP) also use the Labs of Physics department for the purpose of research.

**Alumni Meetings:** Department of Physics has formed an Association of ex-students of Physics (AESOP) and the society regularly arranges its seminars on Physics. Annual dinner and the general body meeting of AESOP are also held on regular basis.

**Internships:** Some of our Bsc. (Hons), Electronics, and semester VII students completed their internship at PCSIR.

**Department of Space Science:**

**At national level:** Pakistan Meteorological Department, SUPARCO, WWF, NESPAK, JICA, Urban Unit

**At international level:** Texas Tech University, Texas, USA

**Internships:** NESPAK, WWF

**Centre for Excellence in Solid State Physics:**

**At National level:** University of Engineering & Technology, Lahore., Islamia University, Bahawalpur, Lahore College for Women University, Lahore., Quaid-i-Azam University, Islamabad, Bahauddin Zakariya University, Multan, COMSATS Institute of Information Technology

**At International level:** University of Cambridge. UK, Washington State University, USA, Chinese Academy of Sciences, China, University of York, UK, University of Hull, UK, University of Paisley, UK

**Exchanges and Resource sharing programs:** Analytical facilities available at the Centre are offered to other Pakistani Universities through the HEC.

**Centre for High Energy Physics:**

**At national level:** Dr. Munawar Iqbal: Regular Associate of National Centre for Physics, Quaid-e-Azam University, Islamabad.

**Alumni Meetings:** Alumni of CHEP is in the initial stage of its set up.

**Internships:** Six students of B.Sc./M.Sc. classes performed one month internship at INMOL, Lahore.

**Centre for Integrated Mountain Research:**

**At national level:** Federal Environmental Management Unit WAPDA, Pakistan Space and Upper Atmospheric Research Commission (SUPARCO)

**International Level:** UNESCO, International Centre for Integrated Mountain Development (ICIMOD), Nepal, The Mountain Institute (TMI), Washington DC, USA.

**Exchange & Recourses sharing Programme:**

- Federal Environmental Management Unit WAPDA
- Pakistan Space and Upper Atmospheric Research Commission (SUPARCO)
- International Centre for Integrated Mountain Development (ICIMOD), Nepal.

**Alumni Meetings:** SUPARCO (ii) FEMU

**Internships:** Internships on different programmes have been completed by students of 4<sup>th</sup> semester session 209-10 as following:

- 3 months internship on Water Quality by Salar Ali with EPA- Gilgit.
- One month internship in WAPDA with Mr. Hamid Rehan, on Surface hydrology by Amna Gakhar and Reema Ayub.
- 2 months internship with WWF-P Lahore, GIS-Lab, by Mohd. Talha and Toseef Latif, under guidance of Mr.Usman Akram

- 1 month internship with PCRWR Islamabad on water resource management by Abdul Jalil, Muzammil Hussain, Waqas Ahmed and Zermin Bhatti in July 2010.

**Institute of Chemistry:**

PCSIR, Ferozpur Road, Lahore., HEJ, Karachi., PINSTECH, Islamabad., NIBJI, Faisalabad., ANMOL, Lahore.

**Institute of Geology:**

**The Institute of Geology has linkage with the following national organizations:** Oil & Gas, Islamabad, OPPI, Karachi

- M/S Thies, Germany
- University of Twente, The Netherlands
- Hydrological Forecast and Warning Department, Swedish Meteorological and Hydrological Institute, Sweden.

**Internships:**

- 65 students of B.S. / M.Sc. Applied Geology and M.Sc. Seismology got internship with DGPC, Islamabad.
- 02 students of M.Sc. Seismology got internship at Meteorological Department, Islamabad.
- 04 students of M.Sc. Seismology got internship at National Engineering Services Pakistan (NESPAK), Lahore.
- 05 students of B.S. Applied Geology got internship at Road Research and Material Testing Institute, Canal Road, New Campus, Lahore.

**College of Earth & Environmental Sciences:**

At national level interaction with industry is 3.

Internships are 10

**Punjab University College of Information Technology:**

**Internships:** Final semester PUCIT students start internships with industry/organizations.

**College of Statistical and Actuarial Sciences:**

**At national level:** State Bank of Pakistan, Federal & Provincial Bureaus of Statistics, Higher Education Commission of Pakistan

**At international level:** Department of Clinical Immunology Goteborg University, Sweden

**Internships:** Internships are mandatory for all students of all academic programs in the last semester.

**Office of Research, Innovation and Commercialization:**

ORIC has prepared a letter to be sent to industry & Chamber of Commerce to Corporate & send their problems to Punjab University in different areas so that a joint collaboration can be established.